



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/667,381

09/23/2003

Masato Terao

243087US2

1933

22850

7590

03/13/2009

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.  
1940 DUKE STREET  
ALEXANDRIA, VA 22314

EXAMINER

GARCIA, GABRIEL I

ART UNIT

PAPER NUMBER

2625

NOTIFICATION DATE

DELIVERY MODE

03/13/2009

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com  
oblonpat@oblon.com  
jgardner@oblon.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/667,381	<b>Applicant(s)</b> TERAO ET AL.	
	<b>Examiner</b> GABRIEL I. GARCIA	<b>Art Unit</b> 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 20 November 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,4-9,12-17 and 19-75 is/are pending in the application.
- 4a) Of the above claim(s) See Continuation Sheet is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,4-8,20,24,28,32,36,40,44,48,52,56,60,64,68 and 72 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

Continuation of Disposition of Claims: Claims withdrawn from consideration are 9,12-17,19,21-23,25-27,29-31,33-35,37-39,41-43,45-47,49-51,53-55,57-59,61-63,65-67,69-71 and 73-75.

### **Part III DETAILED ACTION**

1. Claims 9,12-17,19,21-23,25-27,29-31,33-35,37-39,41-43,45-47,49-51,53-55,57-59,61-63,65-67,69-71 and 73-75.withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected group, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 11/20/08.
2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
3. Applicant is reminded of the proper language and format for an abstract of the disclosure. The form and legal phraseology often used in patent claims, such as "means" "**comprises**" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details. The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.
4. Figures 1A-1D appear that it should be designated by a legend such as -- Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement

Art Unit: 2625

sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1,4-8,20,24,28,32,36,40,52,56,60 and 72 are rejected under 35 U.S.C. 102(b) as being anticipated by Ito (U.S. Patent No. 5,839,019).

Regarding claims 1 and 68, Ito discloses an image forming apparatus (see fig. 10 comprising: a hardware resource used for image forming processing; (reads on control circuitry of figs. 1 and 3) and a program for performing processing concerning image formation, (inherently reads Fig. 3, which contains the RAM and CPU that store and run the program or operating system that makes the image processing perform all the functions) wherein said apparatus comprises: a reading type changing part changing a type of reading of a plurality of originals

Art Unit: 2625

which include different types of originals in a mixed manner being read (reads on Figs. 6, 7 and column 8, lines 33-67 that mixed originals can be read in. column7, lines 28-38 discloses that sensor SE3 detects vertical or horizontal sheets, so the reading of the different sheets is being changed by reading the horizontal or vertical document according to the state of the sensor SE3. This facilitates the changing of the scanning processing to detect different types of documents) ; a grouping part grouping printing paper sheets on which images have been formed based on the plurality of originals. (reads on Fig. 22 which shows a discharge subroutine, Which can perform different examples of outputs are in Figs.6 and 7) ; wherein: said reading type changing part changes a type of reading an original in response to a reading type change instruction input by an operator while the plurality of originals are being read (reads on Fig. 2 which shows a control panel to be manipulated by the operator to change the mode of operation) , said reading type comprises a type of an original as to whether the original has an image on a single side thereof or images on both sides thereof (reads on col. 7, lines 54-55 and col. 8, lines 61-67).

Regarding claim 4, Ito discloses the image forming apparatus as claimed in claim 1, wherein: said type comprises a size of the original (abstract)

Regarding claim 5, Ito further comprising a size detecting part detecting the size of the original (e.g. column 3, lines 37-47 - automatic size detection)

Regarding claim 6, Ito discloses said reading type changing part changes the type of reading an original when the size of an original detected by said size

Art Unit: 2625

detecting part immediately before is different from the size of an original which is read subsequently (reads on Fig. 6 and Fig. 7 - documents read in are detected to have different dimensions and are read in a changed manner)

Regarding claim 7, Ito discloses wherein: said size detecting part stops a size detection operation in response to a reading size changing instruction input by an operator. (column 7, lines 47-52 - the one-in-one mode where a single document - would have one size - since Ito refers to pages in Figs.6 and 7 as being different documents. This indicates that in this mode, there is no need to worry about size ).

Regarding claim 8, Ito discloses wherein: in case the reading type changing part changes the type of reading an original, an image of an original which is read subsequently is formed on a printing paper sheet which is different from a printing paper sheet on which an image is formed immediately before the reading type is changed. (column 1, lines 24-28 that different sheets are supplied for the partition and cover pages, indicating that they would be printed on the different papers.)

Regarding claim 20, Ito discloses further comprising an automatic original feeding part which automatically reads the plurality of originals set therein. (Fig. 1 – ADF 50) .

Regarding claims 24 and 28, Ito discloses wherein: in addition to the image of original, a page number is printed on the printing paper sheet. (See Fig. 6.

Art Unit: 2625

Although Ito calls them "documents", one can certainly see that it would be obvious that they can be pages) .

Regarding claims 32 and 36, Ito discloses the recording part which stores data of each image which is formed on the printing paper sheet (or integrated) (reads on Figs. 6 and 7 and col. 17, lines 50-58).

Regarding claim 40, Ito discloses wherein: said grouping part groups the plurality of printing paper sheets by attaching a front cover or a back cover to said plurality of printing paper sheets. (Figs. 6, 7 shows that a first page is a cover sheet) .

Regarding claim 52, Ito discloses further comprising a sorting part which sorts and ejects the plurality of printing paper sheets on which images of the plurality of originals are formed. (column 3, lines 22-25 - sheet supply means) .

Regarding claim 56, Ito discloses wherein: said sorting part sorts and ejects the plurality of printing paper sheets in use of the data of images of originals. (column 3, lines 22-25 - sheet supply means supplies sheets so that the image forming means can print on them).

Regarding claim 60, Ito discloses wherein: said sorting part ejects the plurality of printing paper sheets with changing an orientation or shifting a position thereof. (column 3, lines 22-25 - sheet supply means. And see Fig. 6, 7 that the orientation can be changed. )



Art Unit: 2625

Regarding claim 72, Ito discloses further comprising a sorting step of sorting and ejecting the plurality of printing paper sheets in case of ejecting a plurality of groups of printing paper sheets, which groups are obtained in said grouping step. (column 3, lines 22-25 - sheet supply means).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 44, 48 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito (5,839,019) as applied to claims 1 and/or 52 above, and further in view of Nakata et al. (6,943,921).

Regarding claim 44, Ito discloses a method for printing mixed originals. It does not go into detail regarding the finishing of the printed material.

Thus, Ito does not explicitly disclose "said grouping part groups the plurality of printing paper sheets by binding them with a staple or punching them."

However, Nakata discloses in column 6, lines 25-32 that a finisher can perform stapling.

Art Unit: 2625

Ito and Nakata are combinable because both are in the art of copying documents.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have combined the teaching of Ito and Nakata et al. in order to stapled or bound documents of the finished pages.

The motivation would have been to organize the printed documents.

Therefore, it would have been obvious to combine Ito and Nakata to obtain the invention as specified.

Regarding claims 48 and 64, the secondary reference, Nakata discloses wherein: said grouping part groups the plurality of printing paper sheets in response to a finish instruction input by an operator. (Fig. 4 shows an operation panel for an operator to choose finishing options) . Ito and Nakata are combinable because both are in the art of copying documents.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have combined the teaching of Ito and Nakata et al. in order to create a finished product from the stapled or bound documents of the finished pages.

The motivation would have been to organize the printed documents.

Therefore, it would have been obvious to combine Ito and Nakata to obtain the invention as specified.

***Conclusion***

7. Applicant's arguments with respect to the pending claims have been considered but are moot in view of the new ground(s) of rejection.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gabriel I. Garcia whose telephone number is (571) 272-7434. The Examiner can normally be reached Monday-Thursday from 7:30 AM-6:00 PM. The fax phone number for this group is (571) 273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on (571) 272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-irect.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2625

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2600.

/Gabriel I Garcia/

Primary Examiner, Art Unit 2625

**Gabriel I. Garcia**  
**Primary Examiner**  
**March 10, 2009**